

FIG. 1

## OS IP TABLE

AVAILABLE IPs	IP PERFORMANCE	UNAVAILABLE IPs
IP-000	67%	
IP-001	67%	
		IP-002
		IP-003
		IP-004
		IP-005
		IP-006
		IP-007

FIG. 2

OS IP TABLE

AVAILABLE IPs	IP PERFORMANCE	UNAVAILABLE IPs
IP-000	100%	
IP-001	100%	
IP-002	100%	
IP-003	100%	
		IP-004
		IP-005
		IP-006
		IP-007

FIG. 3

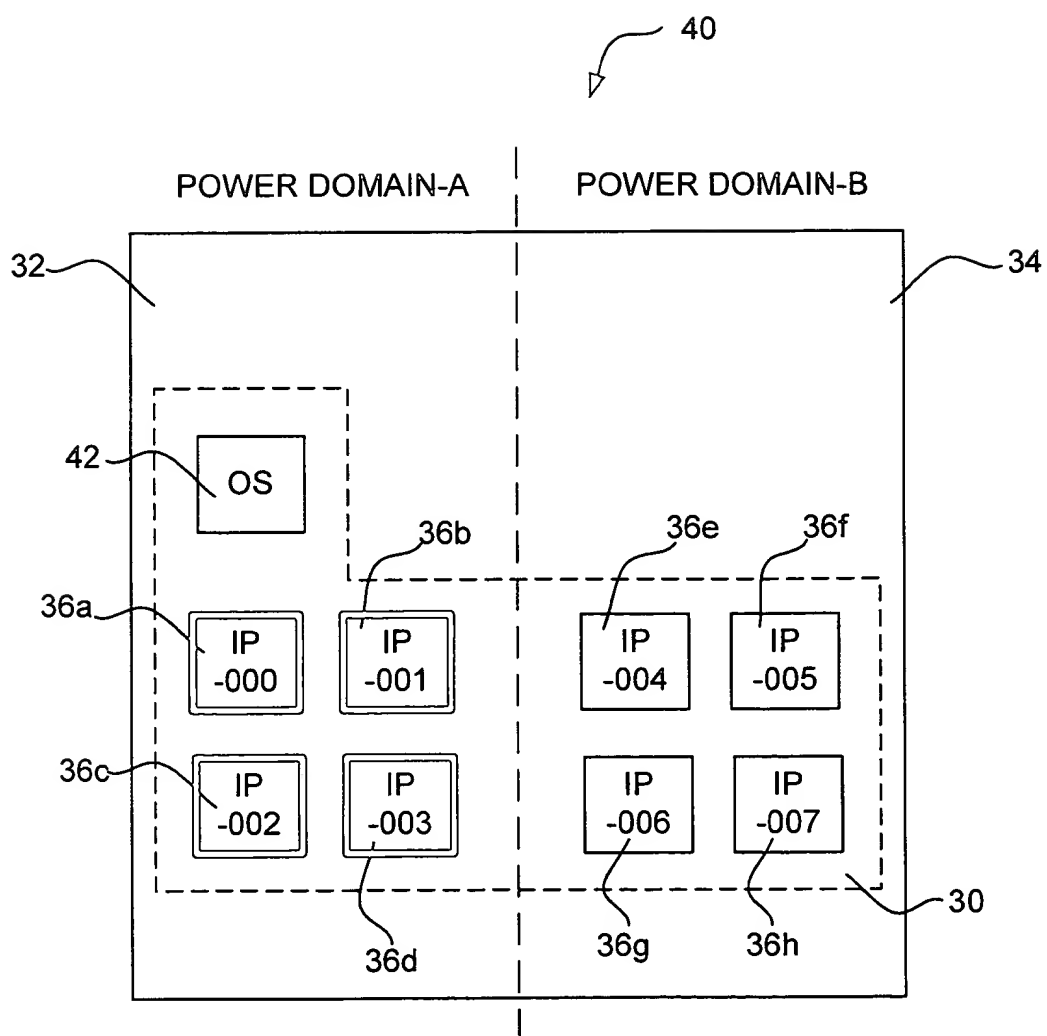


FIG. 4

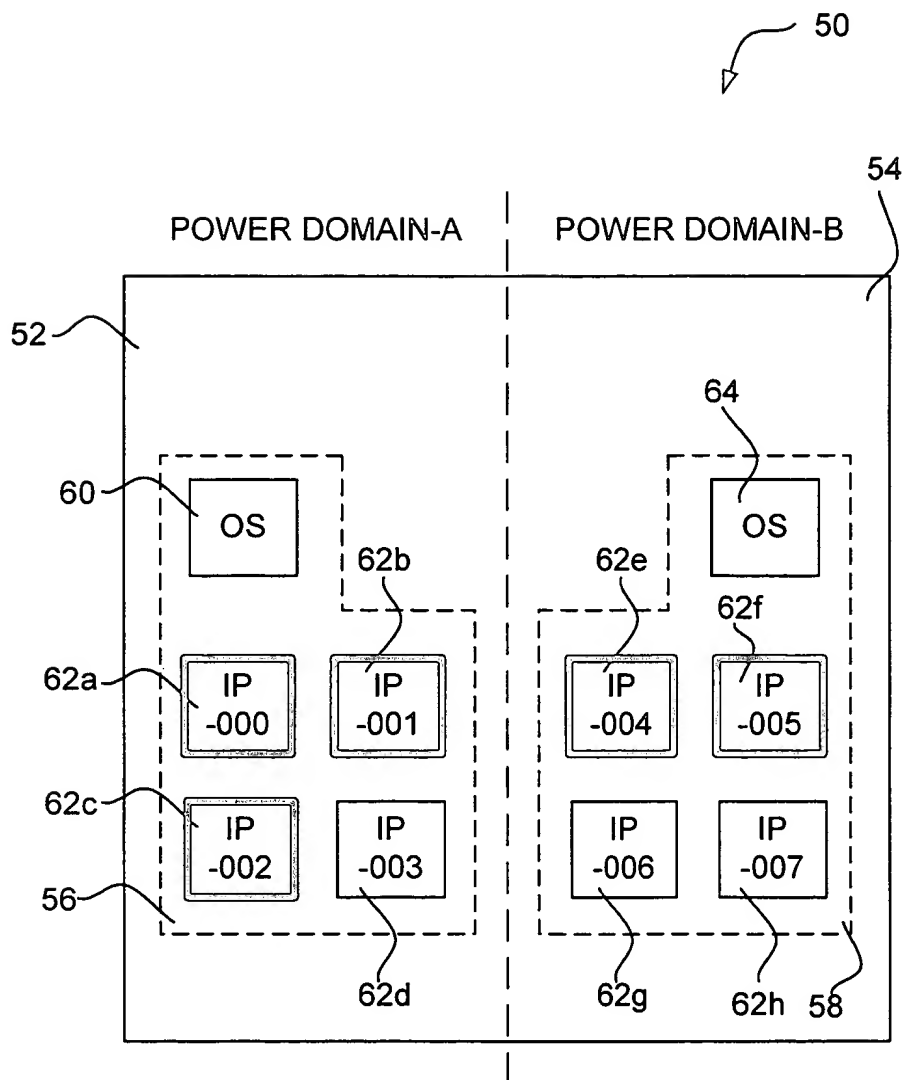


FIG. 5

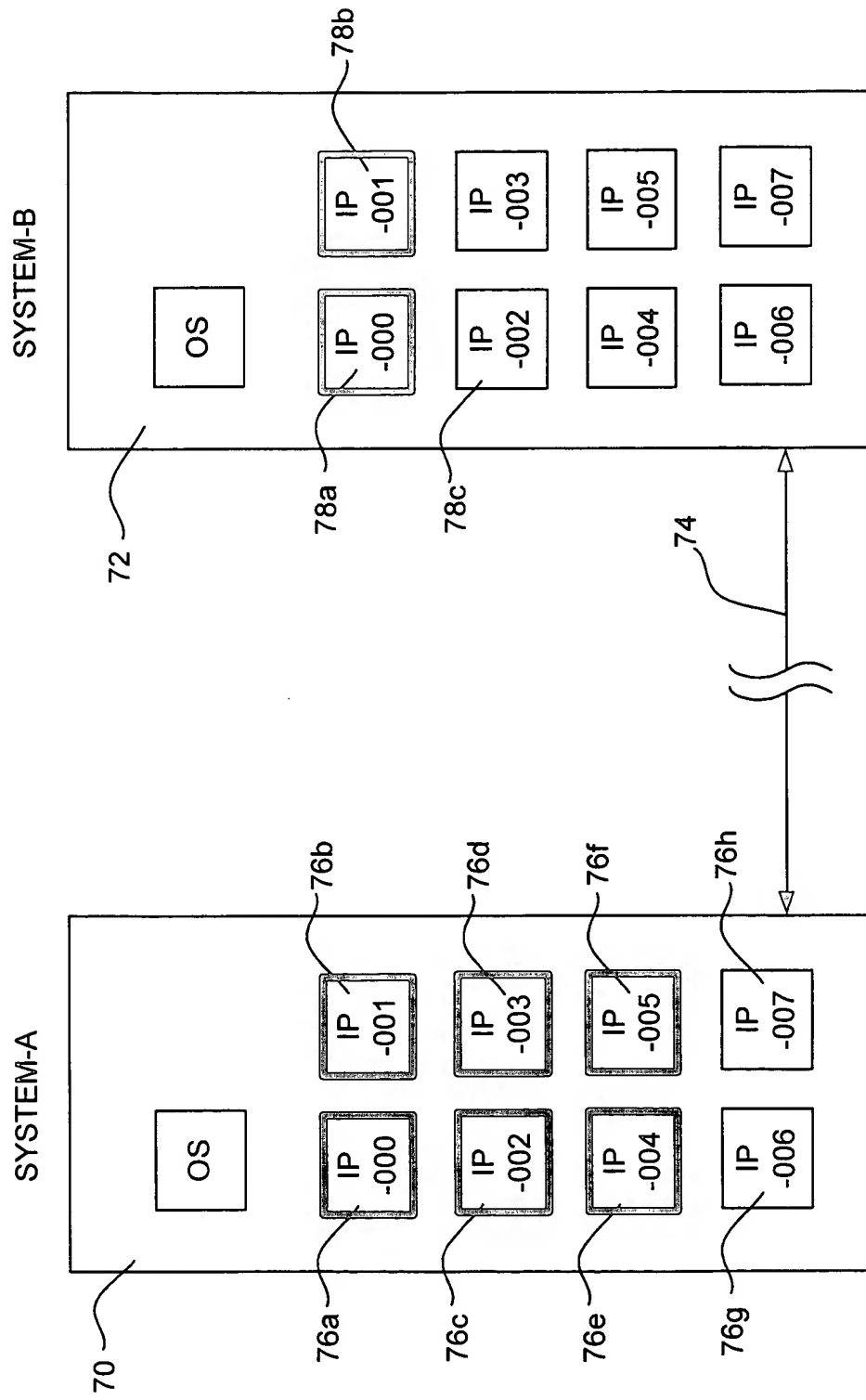


FIG. 6

[illegible]

**FIG. 7**

**FIG. 8**

PARAMETER	ATTRIBUTES
MODEL NUMBER	IX6601-41
SERIAL NUMBER	00001000
MAXIMUM PERFORMANCE	100%
MAXIMUM NUMBER OF IPs	Any 1
IP IDENTIFIER	N/A
EXPIRATION DATE	1-Jan-01
MAXIMUM TIME OF USE	10 DAYS

006250" 29794960

ENHANCED PERFORMANCE KEY

PARAMETER	ATTRIBUTES
MODEL NUMBER	IX6802-88
SERIAL NUMBER	00001002
MAXIMUM PERFORMANCE	100%
MAXIMUM NUMBER OF IPs	8
IP IDENTIFIER	N/A
EXPIRATION DATE	1-Jan-01
MAXIMUM TIME OF USE	10 DAYS

*FIG. 9*

OPTIONAL AUTHORIZATION KEY

PARAMETER	ATTRIBUTES
MODEL NUMBER	IX6802-84
SERIAL NUMBER	00001001
MAXIMUM PERFORMANCE	100%
MAXIMUM NUMBER OF IPs	Any 4
IP IDENTIFIER	N/A
EXPIRATION DATE	1-Jan-01
MAXIMUM TIME OF USE	10 DAYS

*FIG. 10*

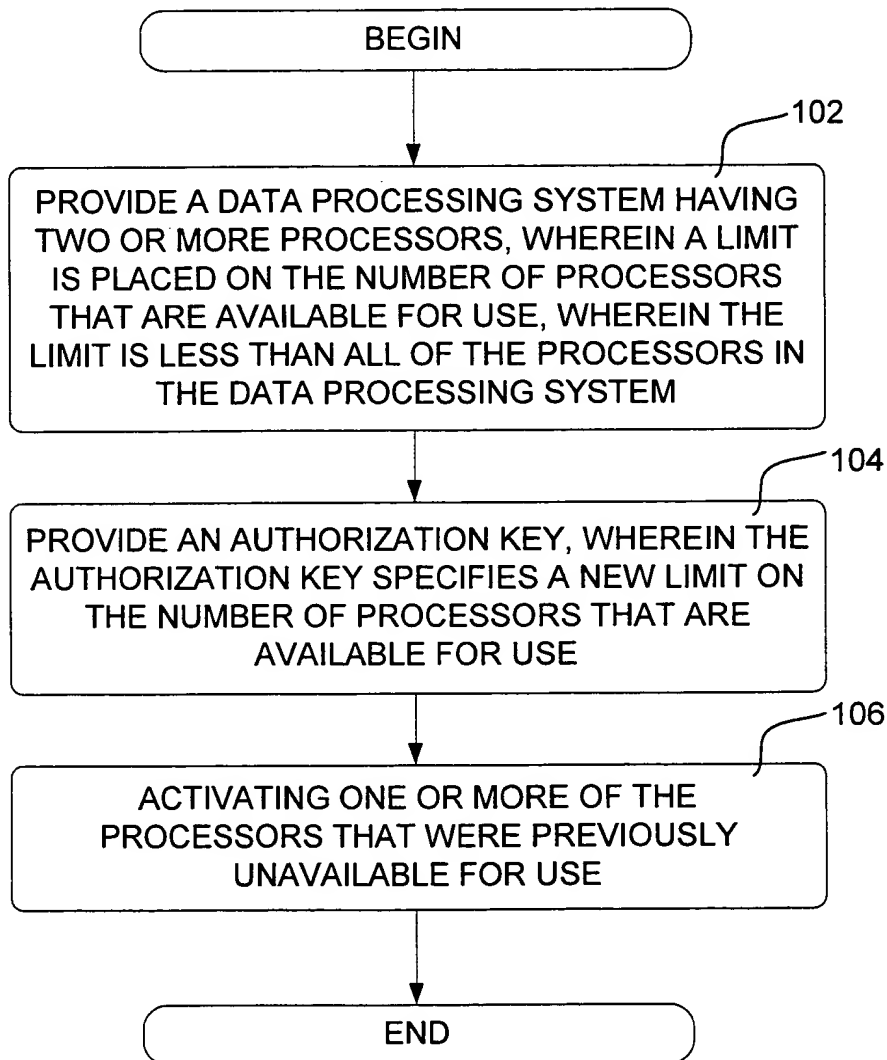
[illegible]

**FIG. 11**

PARAMETER	ATTRIBUTES
MODEL NUMBER	IX6802-88
SERIAL NUMBER	00001002
MAXIMUM PERFORMANCE	100%
MAXIMUM NUMBER OF IPs	8
IP IDENTIFIER	N/A
EXPIRATION DATE	1-Jan-01
MAXIMUM TIME OF USE	10 DAYS

**FIG. 12**





**FIG. 13**

**BEGIN**

PROVIDE A DATA PROCESSING SYSTEM HAVING TWO OR MORE PROCESSORS, WHEREIN AN ORIGINAL LIMIT IS PLACED ON THE NUMBER OF PROCESSORS THAT ARE AVAILABLE FOR USE, WHEREIN THE ORIGINAL LIMIT IS LESS THAN ALL OF THE PROCESSORS IN THE DATA PROCESSING SYSTEM

RUN	
-----	--

PROVIDE AN AUTHORIZATION KEY, WHEREIN THE AUTHORIZATION KEY SPECIFIES A NEW LIMIT ON THE NUMBER OF PROCESSORS THAT ARE AVAILABLE FOR USE, THE AUTHORIZATION KEY ALSO SPECIFYING AN EXPIRATION DATE AND A MAXIMUM TIME OF USE

HAS THE AUTHORIZATION KEY EXPIRED?

YES i

HAS THE MAXIMUM TIME OF USE BEEN EXCEEDED?

1

PERFORM ONE OR MORE IP "UP" COMMANDS

YES

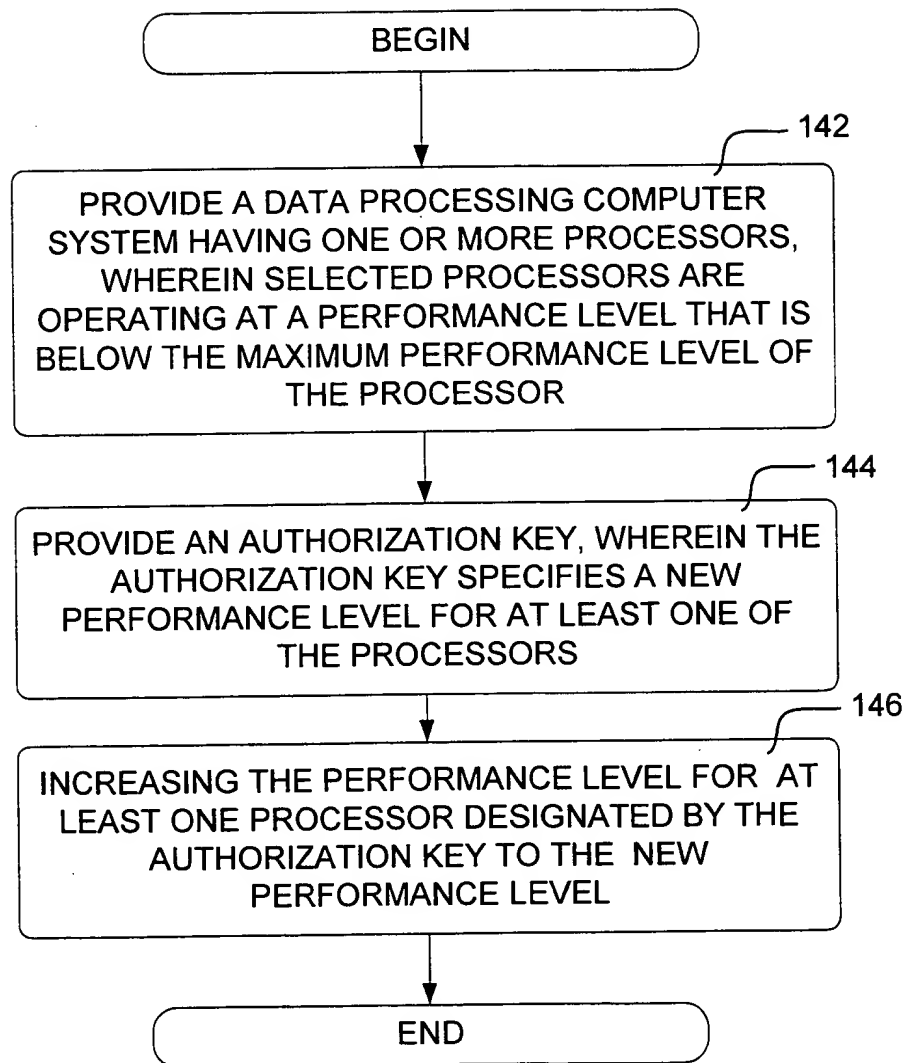
WILL MORE THAN THE NEW LIMIT OF  
PROCESSORS BE EXCEEDED?

1

**FIG. 14A**

```
graph TD; Start(( )) --> 122[122: ACTIVATE ONE OR MORE OF THE PROCESSORS THAT WERE PREVIOUSLY UNAVAILABLE FOR USE]; 122 --> 124[124: HAS THE AUTHORIZATION KEY EXPIRED?]; 124 -- YES --> 128[128: DE-ACTIVATE ENOUGH PROCESSORS SO THAT THE NUMBER OF ACTIVE PROCESSORS IS LESS THAN OR EQUAL TO THE ORIGINAL LIMIT OF PROCESSORS]; 124 -- NO --> 126[126: HAS THE MAXIMUM TIME OF USE BEEN EXCEEDED?]; 126 -- YES --> 128; 126 -- NO --> 124; 128 --> RUN[RUN]; RUN --> 122;
```



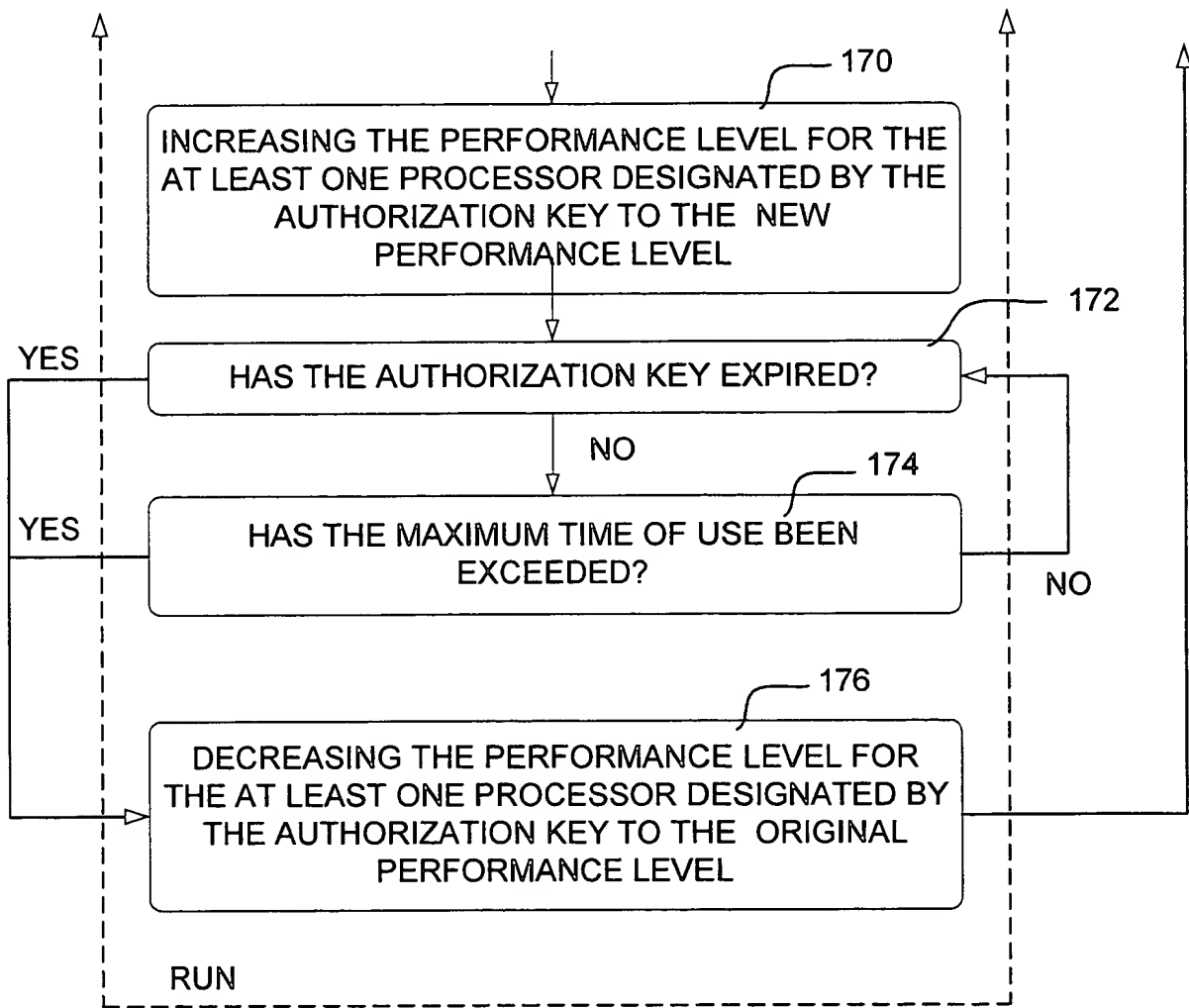


***FIG. 15***

```
graph TD
    1602([BEGIN]) --> 1604[162 PROVIDE A DATA PROCESSING SYSTEM HAVING ONE OR MORE PROCESSORS, WHEREIN SELECTED PROCESSORS ARE OPERATING AT A PERFORMANCE LEVEL THAT IS BELOW THE MAXIMUM PERFORMANCE LEVEL OF THE PROCESSOR]
    1604 --> 1606[164 PROVIDE AN AUTHORIZATION KEY, WHEREIN THE AUTHORIZATION KEY SPECIFIES A NEW PERFORMANCE LEVEL FOR AT LEAST ONE OF THE PROCESSORS]
    1606 --> 1608{166 HAS THE AUTHORIZATION KEY EXPIRED?}
    1608 -- YES --> 1610[ ]
    1608 -- NO --> 1612{168 HAS THE MAXIMUM TIME OF USE BEEN EXCEEDED?}
    1612 -- YES --> 1610
    1612 -- NO --> 1606
    1610 --> 1604
```

Flowchart 1600 illustrates a method for providing a data processing system with an authorization key. The process begins with a "BEGIN" terminal, leading to step 1604 (162): "PROVIDE A DATA PROCESSING SYSTEM HAVING ONE OR MORE PROCESSORS, WHEREIN SELECTED PROCESSORS ARE OPERATING AT A PERFORMANCE LEVEL THAT IS BELOW THE MAXIMUM PERFORMANCE LEVEL OF THE PROCESSOR". This step leads to step 1606 (164): "PROVIDE AN AUTHORIZATION KEY, WHEREIN THE AUTHORIZATION KEY SPECIFIES A NEW PERFORMANCE LEVEL FOR AT LEAST ONE OF THE PROCESSORS". From step 1606, the flow proceeds to decision step 1608 (166): "HAS THE AUTHORIZATION KEY EXPIRED?". If the answer is "YES", the flow proceeds to a dashed line labeled "RUN" (178), which loops back to the input of step 1606. If the answer is "NO", the flow proceeds to decision step 1612 (168): "HAS THE MAXIMUM TIME OF USE BEEN EXCEEDED?". If the answer is "YES", the flow proceeds to the "RUN" dashed line (178). If the answer is "NO", the flow loops back to the input of step 1606.

FIG. 16A



*FIG. 16B*

**BEGIN**

PROVIDE A DATA PROCESSING SYSTEM HAVING TWO OR MORE PROCESSORS, WHEREIN AN ORIGINAL LIMIT IS PLACED ON THE NUMBER OF PROCESSORS THAT ARE AVAILABLE FOR USE, WHEREIN THE ORIGINAL LIMIT IS LESS THAN ALL OF THE PROCESSORS IN THE DATA PROCESSING SYSTEM, AND WHEREIN SELECTED PROCESSORS ARE OPERATING AT A PERFORMANCE LEVEL THAT IS BELOW THE MAXIMUM PERFORMANCE LEVEL OF THE PROCESSOR

PROVIDE AN AUTHORIZATION KEY, WHEREIN THE AUTHORIZATION KEY SPECIFIES A NEW LIMIT ON THE NUMBER OF PROCESSORS THAT ARE AVAILABLE FOR USE AND A NEW PERFORMANCE LEVEL FOR AT LEAST ONE OF THE PROCESSORS, THE AUTHORIZATION KEY ALSO SPECIFYING AN EXPIRATION DATE AND A MAXIMUM TIME OF USE

## HAS THE AUTHORIZATION KEY EXPIRED?

NO

YES

HAS THE MAXIMUM TIME OF USE BEEN EXCEEDED?

NO

PERFORM ONE OR MORE IP "UP" COMMANDS

YES

## WILL MORE THAN THE NEW LIMIT OF PROCESSORS BE EXCEEDED?

NO

**FIG. 17A**

```

graph TD
    Start(( )) --> 212[212  
ACTIVATE ONE OR MORE OF THE PROCESSORS  
THAT WERE PREVIOUSLY UNAVAILABLE FOR USE]
    212 --> 214[214  
INCREASING THE PERFORMANCE LEVEL FOR AT  
LEAST ONE PROCESSOR DESIGNATED BY THE  
AUTHORIZATION KEY TO THE NEW  
PERFORMANCE LEVEL]
    214 --> 216[216  
HAS THE AUTHORIZATION KEY EXPIRED?]
    216 -- YES --> 220[220  
DE-ACTIVATE ENOUGH PROCESSORS SO THAT  
THE NUMBER OF ACTIVE PROCESSORS IS LESS  
THAN OR EQUAL TO THE ORIGINAL LIMIT OF  
PROCESSORS]
    216 -- NO --> 218[218  
HAS THE MAXIMUM TIME OF USE BEEN  
EXCEEDED?]
    218 -- YES --> 220
    218 -- NO --> 222[222  
DECREASING THE PERFORMANCE LEVEL FOR  
THE AT LEAST ONE PROCESSOR DESIGNATED BY  
THE AUTHORIZATION KEY TO THE ORIGINAL  
PERFORMANCE LEVEL]
    220 --> Run((RUN))
    222 --> Run
    Run --> Start

```

**FIG. 17B**